Title: Personal S mantic Taxonomy-Based Search Agent

Inventor: Kerschberg et al. Docket No.: GMU-03-001U

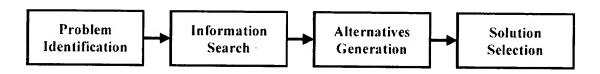


FIG. 1

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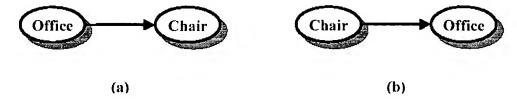


FIG. 2

3/17

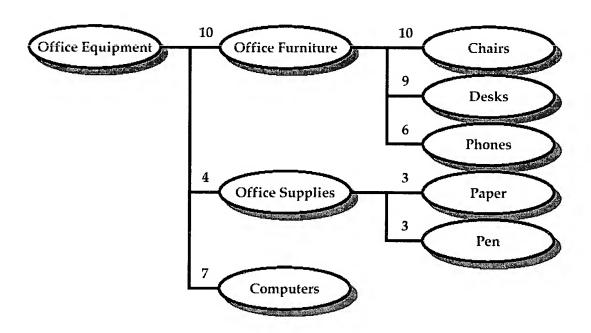


FIG. 3

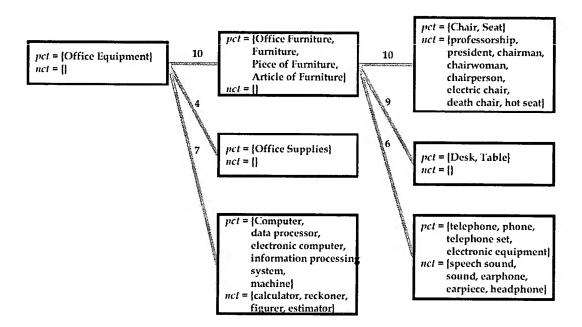


FIG. 4



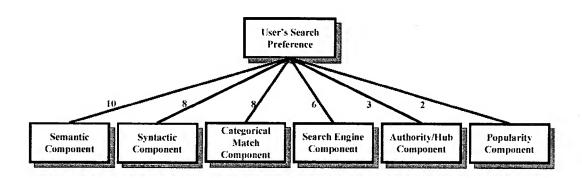


FIG. 5



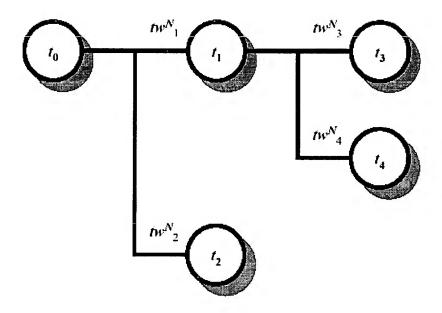


FIG. 6



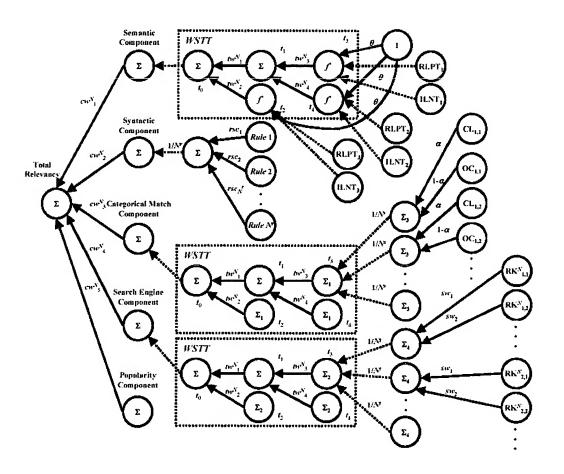


FIG. 7



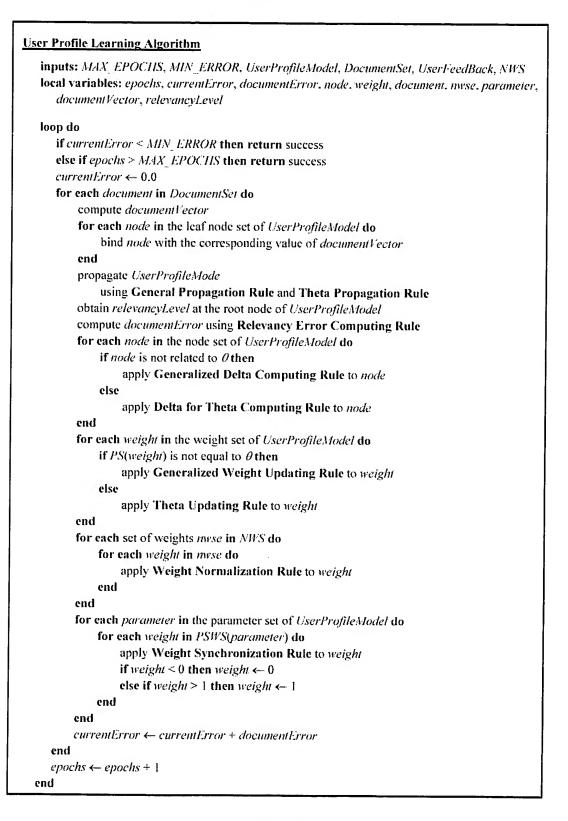


FIG. 8

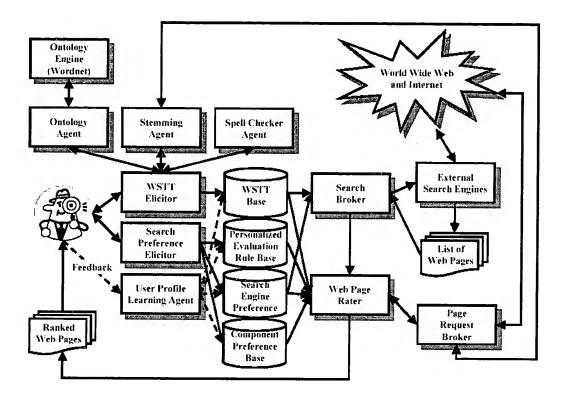


FIG. 9



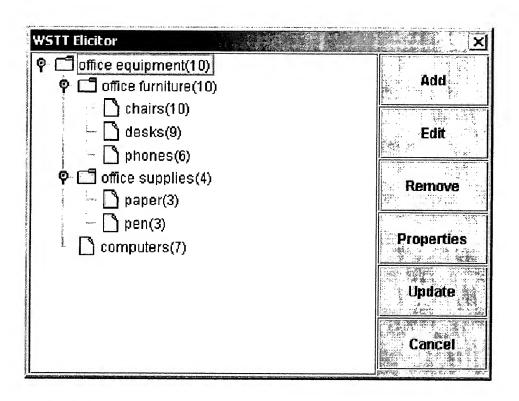


FIG. 10



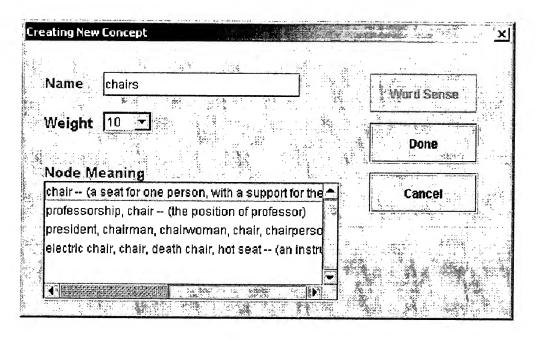


FIG. 11



Jser's Search Preference				X
Search for information on the vand Search Engine Preference		omponent va	lues	
(Component Values Search		ice Advance	ed Rule Con	tent
Semantic Component		10		
Syntactic Component		8	F	
Categorical Match Con	npo n ent	8	_1	
Search Engine Compo	nent	6		
Popularity Component		12		
	OK	Cance		

FIG. 12



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

WebSifte	r Search	Engime	erondene sign e i ligger de le Pydelgheu verig	A BAS MAIL AND	64.0				564.)	
Search Le	arn <u>H</u> e	: f p								
Busines sma	in Proble	≥ m		office equipment(10) office furniture(10) chair(10) desk(9) phone(6) office supplies(4) paper(3) computer(7)		,				
Evaluation	Rank	Title	orange and the	∃ " Un ⇒						
Relevant			the state of the s	fficesuppliessuperstore.com/	Semantic 0.286			Search EP		
Don't Know		Arwebb Offic	http://www.a	wehh comi	0.241	1		***************************************	0	0.325 - 0.312
Don't Know				ockdowncomputer.com/	0.241	1			0	0.312
Don't Know				dminsystems.co.uk/	0.2	1			0	0.299
Don't Know			http://www.all-makes.com/		0.2	1	0	0.021	0	0.297
Don't Know	6	discount offi	http://www.d	is count-office-equipment.com/		1	0		0	0.297
Don't Know	on't Know 7 K. S. Office http://www.ksoffice.com.au/		0.2	1	0		Ö	0.297		
Don't Know			0.2	1	o		o	0.297		
Don't Know				chnology-leasing.co.uk/	0.2	1	O		0	0.296
Don't Know				wensborooffice.com/	0.2	1	0	0.013	0	0.296
Don't Know				nance-e quipment.com/	0.2	1	0	0.013	0	0.296
Don't Know		Bell Office E			0.2	1	0	0.012	0	0.296
on't Know 13 Computer cl http://www.af-net.com/		0.2	1	0	0.012	0	0.296			
on't Know 14 Ohio Busine http://www.obminc.com/		0.2	1	O	0.01	0	0.296			
							-			
Don't Know				systems.co.uk/	0.2	1	0	0.01	0	0.296
Don't Know Don't Know	16	Computer tr	http://www.s	/mquest.com/	0.2	1	0	0.01	0	0.296
Don't Know Don't Know rrelevant	16 17	Computer tr Office Equip	http://www.s http://www.g	ymquest.com/ honline.net/	0.2 0.2					
Don't Know Don't Know	16 17 18	Computer tr Office Equip J&R - T	http://www.s http://www.g http://www.ja	ymquest.com/ honline.net/	0.2	1	0	0.008	0	0.296

FIG. 13



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Search Engines	Average Performance
WebSifter	63%
Copernic	40%
Altavista	43%
Google	40%
Yahoo	48%
Excite	43%

FIG. 14

Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Rank	URL	Feedback	Relevancy
	http://www.countryseat.com	* \ Y \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	eza Y . A.
	http://www.infant-car-seat.com/	ar an	**** N ** **
	http://www.chairmaker.co.uk/	Y ,	Y Y
4	http://www.convertible-car-seat.com/	N N	- N
	http://www.booster-car-seats.com/	N N	· No.
(http://www.booster-seats-online.com/	Don't Know	·N
7	http://www.booster-car-seat.com/	Don't Know	N N
	http://www.podiatrychair.com/	Don't Know	N N
	http://www.carolinachair.com/	Don't Know	\mathbf{Y}
10	http://www.chairdancing.com/	Don't Know	N
11	http://www.massage-chairs-online.com/	Don't Know	N N
12	http://www.panasonic-massage-	Don't Know	N.
13	http://www.fairfieldchair.com/	Don't Know	Y
	http://www.gasserchair.com/	Don't Know	\mathbf{Y}^{-}
15	http://www.chairtech.com/	Don't Know	Y
16	http://www.snugseat.com/	Don't Know	N
17	http://www.seat.com/	Don't Know	N
18	http://www.fifthchair.org/	Don't Know	N N
19	http://www.painted-	Don't Know	Ci Name
20	http://www.jeanmonnetprogram.org/	Don't Know	N

FIG. 15



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Rank	W. URL	* Relevancy
	http://www.fairfieldchair.com/	Y
	http://www.chairmaker.co.uk/	2 : Y
	http://www.carolinachair.com/	\mathbf{Y} . \mathbf{Y}
4	http://www.podiatrychair.com/	E N
5	http://www.chairdancing.com/	
	http://www.gasserchair.com/	Y
7	http://www.chairtech.com/	* * Y
	http://www.snugseat.com/	. N 1*
	http://www.fifthchair.org/	N
10	http://www.ompchairs.com/	Y
	http://www.cyberchair.com/	Y
	http://www.massage-chairs-online.com/	N
13	http://www.panasonic-massage-	N
	http://www.jeanmonnetprogram.org/	N
15	http://www.leap-chair.com/	Y
16	http://www.painted-	N
	http://www.zackback.com/	Y
18	http://www.chair-ergonomics.com/	Y Y
	http://www.countryseat.com	Y
20	http://www.infant-car-seat.com/	N

FIG. 16



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Search Term	Before Learning	After Learning	Performance Enhancement
chair	30%	55%	25%
paper	45%	60%	15%
pen	55%	85%	30%
rock	15%	75%	60%
phone	65%	80%	15%
Average	42%	71%	29%

FIG. 17

